For all site-specific designs of applications not covered by the Standard Specifications, complete plans and special provisions are needed. In general, for site-specific designs of Standard Specification applications, only a minor modification of the appropriate geotextile property table will be needed.

530.06 Design Responsibility

The design responsibility and process for geotextile design are illustrated in Figures 530-4 and 5. The Regional Project Development Office, in particular the Regional Project Manager, is responsible to initiate and develop all Standard Specification geotextile designs, except for roadway separation and soil stabilization applications, which are initiated and developed by the Regional Materials Laboratory.

The Regional Materials Laboratory assists the Regional Project Manager with Standard Specifications underground drainage and permanent erosion control designs.

The Regional Environmental Design Section assists with Standard Specifications, permanent erosion control, and temporary silt fence designs.

Once the Regional Project Manager or Materials Laboratory has determined that a geotextile is appropriate, development of a Standard Specification geotextile design includes the development of plan details showing the plan location and cross-section of the geotextile installation. Standard details for geotextiles as provided in the *Plans Preparation Manual* may be used or modified to adapt to the specific project situation. Note that only minimum dimensions for drains are provided in these standard details.

Site-specific geosynthetic designs and applications not addressed by the Standard Specifications are designed by the region with the assistance of the <u>HQ</u> Materials Laboratory Geotechnical <u>Services Division</u> or the <u>HQ</u> Hydraulics <u>Branch</u> as described in 530.05.

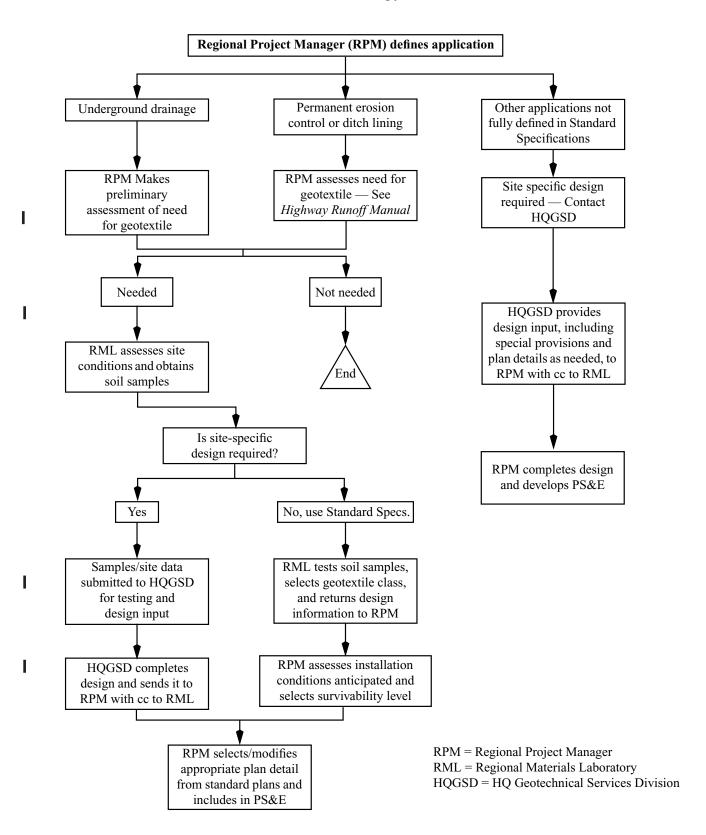
Design assistance by the <u>HQ</u> Geotechnical <u>Services Division</u> or <u>HQ</u> Hydraulics <u>Branch</u> for site-specific design of Standard Specifications applications includes determination of geosynthetic properties and other advice as needed to complete the geosynthetic plans and any special provisions required.

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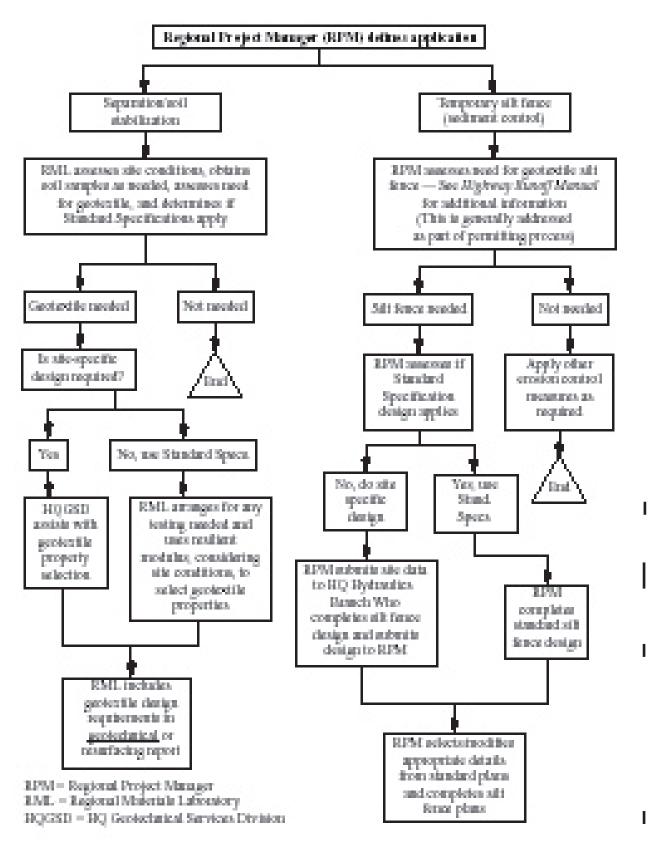
The <u>HQ</u> Geotechnical <u>Services Division</u> is fully responsible to develop and complete the geosynthetic design, plan details that can be used to develop the contract plan sheets, and special provisions for geosynthetic reinforced walls, slopes, and embankments; deep trench drains for landslide stabilization; and other applications that are an integral part of an <u>HQ</u> geotechnical design. The Regional Project Manager incorporates the plan details and special provisions into the PS&E.

530.07 Documentation

A list of documents that are to be preserved [in the Design Documentation Package (DDP) or the Project File (PF)] is on the following website: http://www.wsdot.wa.gov/eesc/design/projectdev/

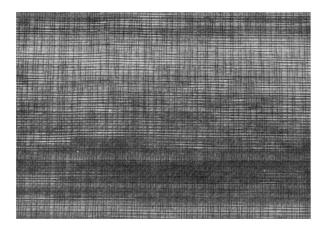


Design Process for Drainage and Erosion Control Geotextiles and Nonstandard Applications Figure 530-4

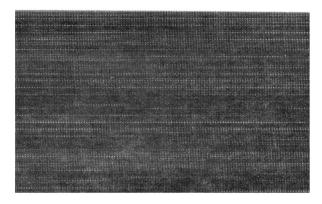


Design Process for Separation, Soil Stabilization, and Silt Fence Figure 530-5

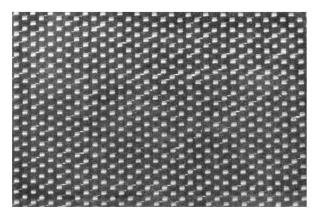
Advance Copy



Slit Film Woven Geotextile



Monofilament Woven Geotextile



Multifilament Woven Geotextile

Examples of Various Geosynthetics *Figure 530-6a*